

<b>UTILITY PATENT APPLICATION TRANSMITTAL</b>	Attorney Docket No.: <b>UDC-20201 CON</b>	
	First Inventor: <b>Michael Stuart Weaver</b>	
	Title: <b>METHODS AND STRUCTURES FOR REDUCING LATERAL DIFFUSION THROUGH COOPERATIVE BARRIER LAYERS</b>	
	Express Mail Label No.: <b>ER 638135216 US</b>	

(Only for new nonprovisional applications under 37 CFR 1.53(b))


<b>APPLICATION ELEMENTS</b> (see MPEP chapter 600 concerning utility patent application contents)	<b>Mail Stop Patent Application</b> Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450
1. <input checked="" type="checkbox"/> Fee Transmittal Form in duplicate (Submit an original and a duplicate for fee processing) 2. <input type="checkbox"/> Applicant claims small entity status See 37 CFR 1.27 3. <input checked="" type="checkbox"/> Specification Total Pages <b>22</b> (preferred arrangement set forth below) -Descriptive title of the invention -Cross Reference to Related Applications -Statement Regarding Fed sponsored R&D -Reference to sequence listing, a table, -Background of the Invention -Brief Summary of the Invention -Brief Description of the Drawings (if filed) -Detailed Description -Claim(s) -Abstract of the Disclosure 4. <input checked="" type="checkbox"/> Drawing(s) Total Sheets <b>8</b> 5. Oath or Declaration a. <input type="checkbox"/> Newly executed (original or copy) b. <input checked="" type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) (for continuation/ divisional with Box 18 completed) i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. <input type="checkbox"/> Application Data Sheet under 37 CFR 1.76	7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence (if applicable, all necessary) a. <input type="checkbox"/> Computer Readable Form (CFR) b. <input type="checkbox"/> Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-4 (2 copies); ii. <input type="checkbox"/> or paper c. <input type="checkbox"/> Statements verifying identity of above copies <b>ACCOMPANYING APPLICATION PARTS</b> 9. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) 10. <input type="checkbox"/> 37 CFR 3.73(b) <input checked="" type="checkbox"/> Power of Attorney Statement (when there is an assignee) 11. <input type="checkbox"/> English Translation Document (if applicable) 12. <input checked="" type="checkbox"/> IDS <input type="checkbox"/> Copies of IDS Citations 13. <input checked="" type="checkbox"/> Preliminary Amendment 14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) 15. <input type="checkbox"/> Certified Copy of Priority Document 16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. <input type="checkbox"/> Other: _____ _____ _____ _____
18. IF A CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment: <input checked="" type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-Part (CIP) Prior Appl. No. <b>09/820,540</b> Prior Appl. information: Examiner: <b>Travis B. Riber</b> Group/Art Unit: <b>1711</b> For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.	
<b>19. CORRESPONDENCE ADDRESS</b> <input checked="" type="checkbox"/> Customer Number or Bar Code Label <b>27774</b> or <input type="checkbox"/> Correspondence address below Name <b>David B. Bonham</b> Address <b>Mayer Fortkort &amp; Williams, PC</b> <b>251 North Avenue West, 2<sup>nd</sup> Floor</b> City <b>Westfield</b> State <b>NJ</b> Zip Code <b>07090</b> Country <b>U.S.A.</b> Telephone <b>703-433-0510</b> Fax <b>703-433-2362</b> Name <b>David B. Bonham</b> Registration No. <b>34,297</b> SIGNATURE <b>[Signature]</b> Date <b>Nov. 13, 2003</b>	

17858 U.S. PTO  
 10/712492



11303  
17707 U.S. PTO

FEE TRANSMITTAL		Complete if Known																																																																																																																																																											
Patent fees are subject to annual revision		Application Number	Unassigned																																																																																																																																																										
		Filing Date	Filed Herewith																																																																																																																																																										
		First Named Inventor	Michael Stuart Weaver																																																																																																																																																										
		Examiner Name	Unassigned																																																																																																																																																										
		Group Art Unit	1711																																																																																																																																																										
TOTAL AMOUNT OF PAYMENT (\$)		1168	Attorney Docket No. UDC-20201 CON																																																																																																																																																										
METHOD OF PAYMENT		FEE CALCULATION (continued)																																																																																																																																																											
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to: Deposit Account Number <u>50-1047</u> Deposit Account Name <u>Mayer Fortkort &amp; Williams</u>  <input checked="" type="checkbox"/> Charge Any Additional Fee required under 37 CFR 1.16 and 1.17 <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		3. ADDITIONAL FEES <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> </tr> <tr> <th>Code</th> <th>Fee (\$)</th> <th>Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1051</td><td>130</td><td>2061</td><td>65</td><td>Surcharge - late filing fee or oath</td></tr> <tr><td>1052</td><td>50</td><td>2062</td><td>25</td><td>Surcharge - late Provisional filing</td></tr> <tr><td>1053</td><td>130</td><td>1063</td><td>130</td><td>Non-English specification</td></tr> <tr><td>147</td><td>2520</td><td>147</td><td>2520</td><td>For filing a request for ex parte Reexamination</td></tr> <tr><td>1804</td><td>920*</td><td>1804</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td></tr> <tr><td>1805</td><td>1840*</td><td>1805</td><td>1840*</td><td>Requesting publication of SIR after Examiner action</td></tr> <tr><td>1251</td><td>110</td><td>2251</td><td>55</td><td>Extension for reply within first month</td></tr> <tr><td>1252</td><td>420</td><td>2252</td><td>210</td><td>Extension for reply within second month</td></tr> <tr><td>1253</td><td>950</td><td>2253</td><td>475</td><td>Extension for reply within third month</td></tr> <tr><td>1254</td><td>1480</td><td>2254</td><td>740</td><td>Extension for reply within fourth month</td></tr> <tr><td>1255</td><td>2010</td><td>2255</td><td>1005</td><td>Extension for reply within fifth month</td></tr> <tr><td>1401</td><td>330</td><td>2401</td><td>165</td><td>Notice of Appeal</td></tr> <tr><td>1402</td><td>330</td><td>2402</td><td>165</td><td>Filing a brief in support of an appeal</td></tr> <tr><td>1403</td><td>280</td><td>2403</td><td>145</td><td>Request for oral hearing</td></tr> <tr><td>1451</td><td>1510</td><td>1451</td><td>1510</td><td>Petition to institute a public use proceeding</td></tr> <tr><td>1452</td><td>1330</td><td>2452</td><td>665</td><td>Petition to revive - unavoidable</td></tr> <tr><td>1453</td><td>1330</td><td>2453</td><td>665</td><td>Petition to revive - unintentional</td></tr> <tr><td>1501</td><td>1330</td><td>2501</td><td>665</td><td>Utility issue fee (or reissue)</td></tr> <tr><td>1502</td><td>480</td><td>2502</td><td>240</td><td>Design issue fee</td></tr> <tr><td>1503</td><td>840</td><td>2503</td><td>320</td><td>Plant issue fee</td></tr> <tr><td>1460</td><td>130</td><td>1460</td><td>130</td><td>Petitions to the Commissioner</td></tr> <tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Processing fee under 37 CFR 1.17(a)</td></tr> <tr><td>1808</td><td>180</td><td>1808</td><td>180</td><td>Submission of IDS</td></tr> <tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td></tr> <tr><td>1809</td><td>770</td><td>2809</td><td>385</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td></tr> <tr><td>1810</td><td>770</td><td>2810</td><td>385</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td></tr> <tr><td>1801</td><td>770</td><td>2801</td><td>385</td><td>Request for Continued Examination (RCE)</td></tr> <tr><td>1802</td><td>900</td><td>1802</td><td>900</td><td>Request for expedited examination of a design application</td></tr> <tr><td colspan="5">Other fee (specify) _____</td></tr> </tbody> </table>		Large Entity		Small Entity		Fee Description	Code	Fee (\$)	Code	Fee (\$)	1051	130	2061	65	Surcharge - late filing fee or oath	1052	50	2062	25	Surcharge - late Provisional filing	1053	130	1063	130	Non-English specification	147	2520	147	2520	For filing a request for ex parte Reexamination	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	1805	1840*	1805	1840*	Requesting publication of SIR after Examiner action	1251	110	2251	55	Extension for reply within first month	1252	420	2252	210	Extension for reply within second month	1253	950	2253	475	Extension for reply within third month	1254	1480	2254	740	Extension for reply within fourth month	1255	2010	2255	1005	Extension for reply within fifth month	1401	330	2401	165	Notice of Appeal	1402	330	2402	165	Filing a brief in support of an appeal	1403	280	2403	145	Request for oral hearing	1451	1510	1451	1510	Petition to institute a public use proceeding	1452	1330	2452	665	Petition to revive - unavoidable	1453	1330	2453	665	Petition to revive - unintentional	1501	1330	2501	665	Utility issue fee (or reissue)	1502	480	2502	240	Design issue fee	1503	840	2503	320	Plant issue fee	1460	130	1460	130	Petitions to the Commissioner	1807	50	1807	50	Processing fee under 37 CFR 1.17(a)	1808	180	1808	180	Submission of IDS	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	1801	770	2801	385	Request for Continued Examination (RCE)	1802	900	1802	900	Request for expedited examination of a design application	Other fee (specify) _____				
Large Entity		Small Entity		Fee Description																																																																																																																																																									
Code	Fee (\$)	Code	Fee (\$)																																																																																																																																																										
1051	130	2061	65	Surcharge - late filing fee or oath																																																																																																																																																									
1052	50	2062	25	Surcharge - late Provisional filing																																																																																																																																																									
1053	130	1063	130	Non-English specification																																																																																																																																																									
147	2520	147	2520	For filing a request for ex parte Reexamination																																																																																																																																																									
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																									
1805	1840*	1805	1840*	Requesting publication of SIR after Examiner action																																																																																																																																																									
1251	110	2251	55	Extension for reply within first month																																																																																																																																																									
1252	420	2252	210	Extension for reply within second month																																																																																																																																																									
1253	950	2253	475	Extension for reply within third month																																																																																																																																																									
1254	1480	2254	740	Extension for reply within fourth month																																																																																																																																																									
1255	2010	2255	1005	Extension for reply within fifth month																																																																																																																																																									
1401	330	2401	165	Notice of Appeal																																																																																																																																																									
1402	330	2402	165	Filing a brief in support of an appeal																																																																																																																																																									
1403	280	2403	145	Request for oral hearing																																																																																																																																																									
1451	1510	1451	1510	Petition to institute a public use proceeding																																																																																																																																																									
1452	1330	2452	665	Petition to revive - unavoidable																																																																																																																																																									
1453	1330	2453	665	Petition to revive - unintentional																																																																																																																																																									
1501	1330	2501	665	Utility issue fee (or reissue)																																																																																																																																																									
1502	480	2502	240	Design issue fee																																																																																																																																																									
1503	840	2503	320	Plant issue fee																																																																																																																																																									
1460	130	1460	130	Petitions to the Commissioner																																																																																																																																																									
1807	50	1807	50	Processing fee under 37 CFR 1.17(a)																																																																																																																																																									
1808	180	1808	180	Submission of IDS																																																																																																																																																									
8021	40	8021	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																									
1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))																																																																																																																																																									
1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))																																																																																																																																																									
1801	770	2801	385	Request for Continued Examination (RCE)																																																																																																																																																									
1802	900	1802	900	Request for expedited examination of a design application																																																																																																																																																									
Other fee (specify) _____																																																																																																																																																													
2. <input type="checkbox"/> Payment Enclosed: <input type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other																																																																																																																																																													
FEE CALCULATION																																																																																																																																																													
1. BASIC FILING FEE  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>1001</td><td>770</td><td>2001</td><td>385</td><td>Utility filing fee</td><td>770</td></tr> <tr><td>1002</td><td>340</td><td>2002</td><td>170</td><td>Design filing fee</td><td></td></tr> <tr><td>1003</td><td>530</td><td>2003</td><td>265</td><td>Plant filing fee</td><td></td></tr> <tr><td>1004</td><td>770</td><td>2004</td><td>385</td><td>Reissue filing fee</td><td></td></tr> <tr><td>1005</td><td>180</td><td>2005</td><td>80</td><td>Provisional filing fee</td><td></td></tr> <tr><td colspan="5" style="text-align: right;">SUBTOTAL (1)</td><td>(\$ 770)</td></tr> </tbody> </table>		Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	1001	770	2001	385	Utility filing fee	770	1002	340	2002	170	Design filing fee		1003	530	2003	265	Plant filing fee		1004	770	2004	385	Reissue filing fee		1005	180	2005	80	Provisional filing fee		SUBTOTAL (1)					(\$ 770)																																																																																																																		
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																								
1001	770	2001	385	Utility filing fee	770																																																																																																																																																								
1002	340	2002	170	Design filing fee																																																																																																																																																									
1003	530	2003	265	Plant filing fee																																																																																																																																																									
1004	770	2004	385	Reissue filing fee																																																																																																																																																									
1005	180	2005	80	Provisional filing fee																																																																																																																																																									
SUBTOTAL (1)					(\$ 770)																																																																																																																																																								
2. EXTRA CLAIM FEES  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Total Claims</th> <th>Previously Paid**</th> <th>Extra Claims</th> <th>Fee from before</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>42</td> <td>20</td> <td>22</td> <td>18</td> <td>\$396</td> </tr> <tr> <td>Independent Claims</td> <td>3</td> <td>0</td> <td>86</td> <td>0</td> </tr> <tr> <td colspan="4" style="text-align: right;">Multiple Dependent</td> <td>280 =</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> </tr> </thead> <tbody> <tr><td>1202</td><td>18</td><td>2202</td><td>9</td><td>Claims in excess of 20</td></tr> <tr><td>1201</td><td>85</td><td>2201</td><td>43</td><td>Independent claims in excess of 3</td></tr> <tr><td>1203</td><td>280</td><td>2203</td><td>145</td><td>Multiple dependent claim, if not paid</td></tr> <tr><td>1204</td><td>85</td><td>2204</td><td>43</td><td>* Reissue independent claims over original patent</td></tr> <tr><td>1205</td><td>18</td><td>2205</td><td>9</td><td>* Reissue claims in excess of 20 and over original patent</td></tr> <tr><td colspan="5" style="text-align: right;">SUBTOTAL (2)</td><td>(\$ 396)</td></tr> </tbody> </table> <p>**OR NUMBER PREVIOUSLY PAID, IF GREATER THAN STANDARD ALLOWANCE. *For Reissues, see above</p>		Total Claims	Previously Paid**	Extra Claims	Fee from before	Fee Paid	42	20	22	18	\$396	Independent Claims	3	0	86	0	Multiple Dependent				280 =	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	1202	18	2202	9	Claims in excess of 20	1201	85	2201	43	Independent claims in excess of 3	1203	280	2203	145	Multiple dependent claim, if not paid	1204	85	2204	43	* Reissue independent claims over original patent	1205	18	2205	9	* Reissue claims in excess of 20 and over original patent	SUBTOTAL (2)					(\$ 396)																																																																																																				
Total Claims	Previously Paid**	Extra Claims	Fee from before	Fee Paid																																																																																																																																																									
42	20	22	18	\$396																																																																																																																																																									
Independent Claims	3	0	86	0																																																																																																																																																									
Multiple Dependent				280 =																																																																																																																																																									
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description																																																																																																																																																									
1202	18	2202	9	Claims in excess of 20																																																																																																																																																									
1201	85	2201	43	Independent claims in excess of 3																																																																																																																																																									
1203	280	2203	145	Multiple dependent claim, if not paid																																																																																																																																																									
1204	85	2204	43	* Reissue independent claims over original patent																																																																																																																																																									
1205	18	2205	9	* Reissue claims in excess of 20 and over original patent																																																																																																																																																									
SUBTOTAL (2)					(\$ 396)																																																																																																																																																								
SUBMITTED BY		Complete (if applicable)																																																																																																																																																											
Name (Print/Type)	David B. Bonham	Registration No.	34,297																																																																																																																																																										
Signature	<i>David B. Bonham</i>	Telephone	703-433-0510																																																																																																																																																										
		Date	Nov. 13, 2003																																																																																																																																																										

<b>CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)</b> Applicant(s): Michael Stuart Weaver			Docket No. UDC-20201 CON
Serial No. Unassigned	Filing Date Filed Herewith	Examiner Unassigned	Group Art Unit 1711
Invention: <b>METHODS AND STRUCTURES FOR REDUCING LATERAL DIFFUSION THROUGH COOPERATIVE BARRIER LAYERS</b>			
<p>I hereby certify that the following correspondence:</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"><b>New U.S. Continuation Patent Application</b></div> <p style="text-align: center;"><i>(Identify type of correspondence)</i></p> <p>is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on</p> <p style="text-align: center;"><u>11/13/03</u> <i>(Date)</i></p> <div style="text-align: right; margin-top: 20px;"><p><u>Marjorie Scariati</u> <i>(Typed or Printed Name of Person Mailing Correspondence)</i></p><p><u></u> <i>(Signature of Person Mailing Correspondence)</i></p><p><u>ER 638135216 US</u> <i>("Express Mail" Mailing Label Number)</i></p></div>			
<p><b>Note: Each paper must have its own certificate of mailing.</b></p>			